# Chemical Safety Data Sheet MSDS / SDS

# 3,4-Dichlorobenzylamine

Revision Date:2024-12-21 Revision Number:1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# **Product identifier**

Product name	: 3,4-Dichlorobenzylamine
CBnumber	: CB2743833
CAS	: 102-49-8
EINECS Number	: 203-035-1
Synonyms	: (3,4-dichlorophenyl)methanamine,3,4-Dichlorobenzylamine
Relevant identified uses of the s	ubstance or mixture and uses advised against
Relevant identified uses	: For R&D use only. Not for medicinal, household or other use.
Uses advised against	: none
Company Identification	
Company	: Chemicalbook
Address	: Building 1, Huihuang International, Shangdi 10th Street, Haidian District, E
Telephone	: 400-158-6606

# SECTION 2: Hazards identification

# GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Danger

#### Precautionary statements

P405 Store locked up.

P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continuerinsing.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Hazard statements

H318 Causes serious eye damage

H314 Causes severe skin burns and eye damage

Beijing

# SECTION 3: Composition/information on ingredients

# Substance

Product name	: 3,4-Dichlorobenzylamine
Synonyms	: (3, 4- dichlorophenyl) methanamine, 3, 4- Dichlorobenzylamine
CAS	: 102-49-8
EC number	: 203-035-1
MF	: C7H7Cl2N
MW	: 176.04

# SECTION 4: First aid measures

## Description of first aid measures

#### General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5: Firefighting measures**

## **Extinguishing media**

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

## Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# **Further information**

No data available

### **NFPA 704**

3	1 ×	0
HEALTH	3	Short exposure could cause serious temporary or moderate residual injury (e.g. <u>liquid hydrogen, sulfuric acid</u> , <u>calcium</u> <u>hypochlorite</u> , hexafluorosilicic acid)
FIRE	1	Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93.3 °C (200 °F). (e.g. mineral oil, ammonia)
REACT	0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, N2)
SPEC. HAZ.		

# SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

## **Environmental precautions**

Do not let product enter drains.

## Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

# **Reference to other sections**

For disposal see section 13.

# SECTION 7: Handling and storage

## Precautions for safe handling

Avoid inhalation of vapor or mist.

Normal measures for preventive fire protection. For precautions see section 2.2.

### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

#### control parameter

#### Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

#### **Exposure controls**

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full- face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

# SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

Appearance	colorless liquid
Odour	No data available
Odour Threshold	No data available

рН	No data available
Melting point/freezing point	332-333 °C(Solv: N,N-dimethylformamide (68-12-2))
Initial boiling point and boiling range	80-82 °C (0.6 mmHg)
Flash point	113 °C - closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive	No data available
limits	
Vapour pressure	No data available
Vapour density	No data available
Relative density	1,32 g/cm3 at 25 °C
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
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# Other safety information

No data available

# SECTION 10: Stability and reactivity

# Reactivity

No data available

### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

No data available

# Conditions to avoid

No data available

# Incompatible materials

Strong oxidizing agents, Strong acids

# Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

Other decomposition products - No data available In the event of fire: see section  $\boldsymbol{5}$ 

# SECTION 11: Toxicological information

Information on toxicological effects
Acute toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitization
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human
carcinogen by IARC.
Reproductive toxicity
No data available
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available
Additional Information
RTECS: Not available
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and
edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing,
laryngitis, Shortness of breath, Headache, Nausea

# SECTION 12: Ecological information

# Toxicity

No data available

# Persistence and degradability

No data available

# Bioaccumulative potential

No data available

# Mobility in soil

No data available

### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### Other adverse effects

No data available

# SECTION 13: Disposal considerations

# Waste treatment methods

#### Product

**UN** number

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

# **SECTION 14: Transport information**

ADR/RID:IMDG:IATA:ADR/RID:IMDG:IATA:

UN number ADR/RID:IMDG:IATA:ADR/RID:IMDG:IATA: IATA: **UN** number ADR/RID:IMDG:IATA: Transport hazard class(es) ADR/RID: - IMDG: - IATA: -ADR/RID: HEXAMETHYLENE DIISOCYANATE IMDG: HEXAMETHYLENE DIISOCYANATE IATA: Hexamethylene diisocyanate ADR/RID: 1771 IMDG: 1771 IATA: 1771 ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: 2811 IMDG: 2811 IATA: 2811 ADR/RID: - IMDG: - IATA: -ADR/RID: 3272 IMDG: 3272 IATA: 3272 ADR/RID: 1993 IMDG: 1993 IATA: 1993 ADR/RID: 2430 IMDG: 2430 IATA: 2430 ADR/RID: - IMDG: - IATA: -ADR/RID: - IMDG: - IATA: -

# **Packaging group**

ADR/RID: - IMDG: - IATA: -ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods ADR/RID: ALKYLPHENOLS, SOLID, N.O.S. IMDG: ALKYLPHENOLS, SOLID, N.O.S. IATA: Alkylphenols, solid, n.o.s. ADR/RID: FLAMMABLE LIQUID, N.O.S. (2,5-Dimethylfuran) IMDG: FLAMMABLE LIQUID, N.O.S. (2,5-Dimethylfuran) IATA: Flammable liquid, n.o.s. (2,5-Dimethylfuran) ADR/RID: ESTERS, N.O.S. (Tetramethyl orthocarbonate) IMDG: ESTERS, N.O.S. (Tetramethyl orthocarbonate) IATA: Esters, n.o.s. (Tetramethyl orthocarbonate) ADR/RID: - IMDG: - IATA: -ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (DS-437) IMDG: TOXIC SOLID, ORGANIC, N.O.S. (DS-437) IATA: Toxic solid, organic, n.o.s. (DS-437) ADR/RID: III IMDG: III IATA: III ADR/RID: DODECYLTRICHLOROSILANE IMDG: DODECYLTRICHLOROSILANE IATA: Dodecyltrichlorosilane Passenger Aircraft: Not permitted for transport ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1 ADR/RID: - IMDG: - IATA: -**Environmental hazards** 

ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: 8 IMDG: 8 IATA: 8 ADR/RID: 8 IMDG 8 IATA: 8 ADR/RID: 9 IMDG Marine pollutant: yes IATA: no ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1 ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: 8 IMDG: 8 IATA: 8 ADR/RID: 8 IMDG: 8 IATA: 8 ADR/RID: - IMDG: - IATA: -ADR/RID: no IMDG Marine pollutant: no IATA: no Special precautions for user Further information Not classified as dangerous in the meaning of transport regulations.

## **Packaging group**

ADR/RID: - IMDG: - IATA: -ADR/RID: III IMDG: III IATA: III ADR/RID: II IMDG: II IATA: II ADR/RID: II IMDG: II IATA: II No data available ADR/RID: III IMDG: III IATA: III No data available ADR/RID: II IMDG: II IATA: II ADR/RID: no IMDG Marine pollutant: no IATA: no No data available

# Special precautions for user

No data available ADR/RID: no IMDG Marine pollutant: no IATA: no Special precautions for user Further information Not classified as dangerous in the meaning of transport regulations.

# No data available

# **SECTION 15: Regulatory information**

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Regulations on the Safety Management of Hazardous Chemicals**

China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/

#### Measures for Environmental Management of New Chemical Substances

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Not Listed. website: https://www.mee.gov.cn/

United States Toxic Substances Control Act (TSCA) Inventory:Listed. website: https://www.epa.gov/

EC Inventory:Listed.

Korea Existing Chemicals List (KECL):Not Listed. website: http://ncis.nier.go.kr

European Inventory of Existing Commercial Chemical Substances (EINECS):Listed. website: https://echa.europa.eu/

Vietnam National Chemical Inventory:Listed. website: https://chemicaldata.gov.vn/

Philippines Inventory of Chemicals and Chemical Substances (PICCS):Not Listed. website: https://emb.gov.ph/

New Zealand Inventory of Chemicals (NZIoC):Not Listed. website: https://www.epa.govt.nz/

# **SECTION 16: Other information**

#### Abbreviations and acronyms

CAS: Chemical Abstracts Service ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulation concerning the International Carriage of Dangerous Goods by Rail IMDG: International Maritime Dangerous Goods IATA: International Air Transportation Association TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

### References

- [1] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- [2] ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- [3] ECHA European Chemicals Agency, website: https://echa.europa.eu/
- [4] eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

- [5] ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- [6] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- [7] HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- [8] IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- [9] IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- [10] Sigma-Aldrich, website: https://www.sigmaaldrich.com/

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